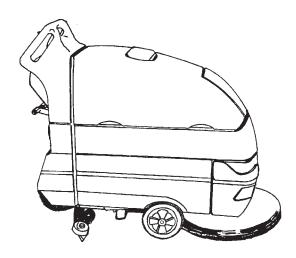


Operator's Manual



ENCORE S20E

READ THIS BOOK

This book has important information for the use and safe operation of this machine. Failure to read this book prior to operating or attempting any service or maintenance procedure to your ALTO machine could result in injury to you or to other personnel; damage to the machine or to other property could occur as well. You must have training in the operation of this machine before using it. If you or your operator(s) cannot read English, have this manual explained fully before attempting to operate this machine.

Si Ud. o sus operadores no pueden leer el Inglés, se hagan explicar este manual completamente antes de tratar el manejo o servicio de esta máquina.

All directions given in this book are as seen from the operator's position at the rear of the machine.

For new books write to: ALTO U.S. Inc., 2100 Highway 265, Springdale, Arkansas 72764.

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OPERATOR SAFETY INSTRUCTIONS

WARNING

AVERTISSEMENT



ADVERTENCIA



DANGER: Failure to read and observe all DANGER statements could result in

severe bodily injury or death. Read and observe all DANGER

statements found in your Owner's Manual and on your machine.

WARNING:

Failure to read and observe all WARNING statements could result in injury to you or to other personnel; property damage could occur as well. Read and observe all WARNING statements found in your

Owner's Manual and on your machine.

CAUTION:

Failure to read and observe all CAUTION statements could result in damage to the machine or to other property. Read and observe all **CAUTION** statements found in our Owner's Manual and on your



DANGER: Failure to read the Owner's Manual prior to operating or attempting any service or

maintenance procedure to your Clarke Technology machine could result in injury to you or to other personnel; damage to the machine or to other property could occur as well. You must have training in the operation of this machine before using it. If you or your operator(s) cannot read English, have this manual explained fully

before attempting to operate this machine.

DANGER:

Operating a machine that is not completely or fully assembled could result in injury or property damage. Do not operate this machine until it is completely assembled.

Inspect the machine carefully before operation.

DANGER:

Machines can cause an explosion when operated near flammable materials and vapors. Do not use this machine with or near fuels, grain dust, solvents, thinners, or other flammable materials. This machine is not suitable for picking up hazard-

DANGER:

Using a machine with a damaged power cord could result in an electrocution. Do not use the machine if the power cord is damaged. Do not use the electrical cord

to move the machine.

DANGER:

Electrocution could occur if maintenance and repairs are performed on a unit that

is not disconnected from the power source. Disconnect the power supply before

attempting any maintenance or service.

DANGER:

Electrocution or fire could occur if the machine is used on a power circuit that repeatedly trips or is undersized. Have a licensed electrician check the fuse, circuit breaker or power supply, and/or contact your local Clarke Technology

distributor for assistance.

WARNING:

Operating this machine from anywhere other than the back of the machine could result in

injury or damage. Operate this machine only from the rear.

WARNING:

This machine is heavy. Get assistance before attempting to transport or move it. Use two able persons to move the machine on a ramp or incline. Always move slowly. Do not turn the machine on a ramp. If operating machine on a gradient over 2%, do not stop, turn or park. Read the "Procedures For Transporting" in this manual before trans-

porting as machine might topple over if not strapped...

WARNING:

Machines can topple over if guided over the edges of stairs or loading docks and cause injury or damage. Stop and leave this machine only on a level surface. When you stop

the machine, put all switches into their "OFF" position.

A

WARNING: Maintenance and repairs performed by unauthorized personnel could result in damage or

injury. Maintenance and repairs must be performed by authorized Clarke Technology

personnel only.

A

WARNING: Any alterations or modifications of this machine could result in damage to the machine or

injury to the operator or other bystanders. Alterations or modifications not authorized by

the manufacturer voids any and all warranties and liabilities.

WARNING:

Electrical components of this machine can "short-out" if exposed to water or moisture.

Keep the electrical components of the machine dry. Wipe the machine down after each

use. For storage, keep the machine in a dry building.

WARNING:

Operating a machine without observing all labels and instructional information could

result in injury or damage. Read all machine labels before attempting to operate. Make sure all of the labels and instructional information are attached or fastened to the machine. Get replacement labels and decals from your Clarke Technology distributor.

WARNING: Wet floor surfaces can be slippery. Water solutions or cleaning materials used with this

type of machine can leave wet areas on the floor surface. These areas can cause a dangerous condition for the operator or other persons. Always put "Caution" signs

around/near the area you are cleaning.

A v

WARNING: Improper discharge of waste water may damage the environment and be illegal.

The United States Environmental Protection Agency has established certain regulations regarding discharge of waste water. Also, city and state regulations regarding this discharge my be in effect in your area. Understand and follow the regulations in your

area. Be aware of the environment hazards of chemicals that you dispose.

A

CAUTION: Use of this machine to move other objects or to climb on could result in injury or dam-

age. Do not use this machine as a step or furniture. Do not ride on this machine.

A

CAUTION: Your machine warranty will be voided if anything other than genuine Clarke Technology

parts are used on your machine. Always use Clarke Technology parts for replacement.

A

CAUTION: Using an extension cord with this machine will result in a drop in voltage and loss of

power. Use of an extension cord is not recommended.

Introduction & Machine Specifications

Introduction & Machine Specifications

Clarke Technology's newly designed Encore S20E automatic scrubber is an efficient and superior floor cleaning machine. The Encore uses one brush to scrub a path 20 inches wide. A squeegee wipes the floor while the vacuum motor removes the dirty solution from the floor - all in one pass.

The Encore S20E automatic scrubber comes complete with either a scrub brush or a pad driver, and one operator's manual.

SPECIFICATIONS:

Model	Encore S20E - 00900A	Encore S20E 00910A	
Model	w/Brake - 00800E w/Brake - 00910E		
Motor, Vac	1 HP two stage		
	tangential	discharge	
Power Supply	75' 0	cord	
Solution Tank	14 gallons		
Recovery Tank	14 gallons		
Parabolic Squeegee	32" (81cm) hard width w/34" (86cm) flex blade width		
Motor, Brush	.75 hp PM		
Brush	20 inch		
Brush Speed	250 rpm		
Brush Pressure	Floating		
Speed, Forward	brush assist.		
Drive Wheels	8" x 2" Neoprene thread		
Length	52½"		
Width (over brush housing)	221/4"		
Height	43½"		
Sound Level (DBA)	78		
Cleaning Swath	20 inch		
Weight (Dry)	338 lbs. 153 kg		
Shipping Weight	. 350 lbs. 187 kg		
Shipping Dimensions	28" x 65.5" x 46.5"		

Procedures For Transporting

How to Put the Machine Into a Van or Truck

WARNING:

This machine is heavy. Get assistance before attempting to transport or move it. Use two able persons to move the machine on a ramp or incline. Always move slowly. Do not turn the machine on a ramp. Do not stop and leave the machine on a ramp or incline. The loading ramp must be a minimum of 32" wide.

WARNING:

Machines can topple over if guided over the edges of stairs or loading docks and cause injury or damage. Stop and leave this machine only on a level surface. When you stop the machine, put all switches into their "OFF" position.

- 1. Make sure the loading ramp is at least eight (8) feet long and a minimum of 32" wide, and strong enough to support the machine.
- 2. Make sure the ramp is clean and dry.
- 3. Put the ramp in position.
- 4. Remove squeegee assembly, brush housing and brush or pad driver before loading.
- 5. Align the machine on a level surface five (5) feet in front of the ramp.
- 6. Push the machine backwards to the top of the ramp.
- 7. Fasten the machine to the vehicle. Clarke Technology recommends a strap over the top of the machine and a strap to keep the machine from rolling forward or backwards. If this is not done, there is a possibility of the machine toppling over.

Procedures For Transpoting (cont.)

How to Remove the Machine From a Van or Truck

- 1. Make sure there are no obstructions in the area.
- 2. Make sure the unloading ramp is at least eight (8) feet long and a minimum of 32" wide, and strong enough to support the machine.
- 3. Make sure the ramp is clean and dry.
- 4. Put the ramp in position.
- 5. Unfasten the machine.

A

WARNING: The machine is heavy. Make

sure you use two able persons to assist in moving the machine down the ramp.

- 6. Get two people to pull machine off ramp. It is recommended that the machine be unloaded in the forward position.
- 7. As the machine begins to travel down the ramp, use two people to maintain a slow downward speed.
- 8. Replace squeegee assembly, brush housing, and brush or pad driver after machine is unloaded and ready to use.

Machine Control Panel

Main Switch (See Figure 1, Item "A")

The main switch turns "ON" the power to the control panel. "O" is "OFF" and "I" is "ON".

Hour Meter (Optional)

The hour meter indicates the number of hours the machine has operated. It runs only when the brush motor is on.

Circuit Breakers (See Figure 1, Items "B" and "C")

The circuit breakers reset button are located on the rear cover.

Item B - Brush Motor (10 amp - 115V) (5 amp - 230V) Item C - Control Breaker (2.5 A)

If a circuit breaker trips, determine which motor is not operating and turn the main switch "OFF". Wait five minutes and push the reset button back in. Turn the main switch "ON" and try again. An authorized service person should be contacted if the breaker trips again.

Control Handles (See Figure 1, Item "D")

The control handles are located at the rear of the machine. They are used to guide the machine.

Solution Control Knob (See Figure 1. Item "E")

The solution control knob regulates the flow of chemical solution to the floor. To increase the flow, turn knob clockwise. To decrease the flow, turn counter clockwise.

Vacuum Motor Switch (See Figure 1, Item "F")

To activate vacuum motor, lower squeegee handle. Handle has two positions. Lowest position is operating position and the middle position is transport to clear vacuum hose.

Brush Motor Switch (See Figure 1, Item "G")

To activate brush motor, lower handle. Brush Motor and solution flow will activate when the traverse buttons are pushed. To shut brush motor off, raise handle to top position.

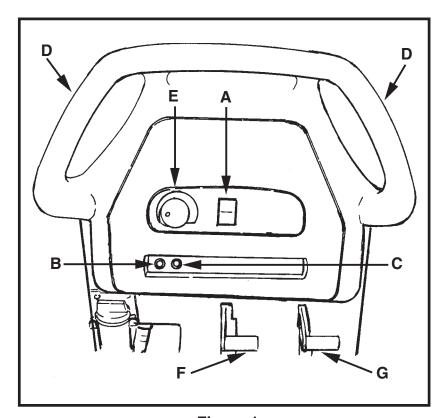


Figure 1

Machine Controls and Features

Squeegee Lift Handle, See Figure 2

The squeegee lift handle is located below the control handles in the center. It is used to raise or lower the squeegee. The vac motor is turned on when the handle is lowered to either the first or last position.

NOTE: Squeegee must be raised to at least the first position when the machine is backed up.

Float Shut Off, See Figure 3

The shut-off switch for the vac motor is located in the recovery tank. It automatically turns off the vac motor when the recovery tank is full. NOTE: If excessive foaming in recovery tank, defoamer must be added. Damage to vacuum motor could result from foam.

Parking Brake, See Figures 4a and 4b (Optional)

The parking brake prevents movement of the machine. It is located at the rear lower left side of the machine. To engage the brake, push the pedal down (Figure 4a). To release the brake, lift pedal up (Figure 4b).

CAUTION: Do not activate the brake while the machine is moving.

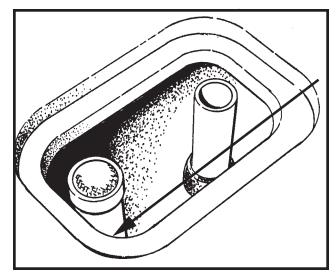


Figure 3

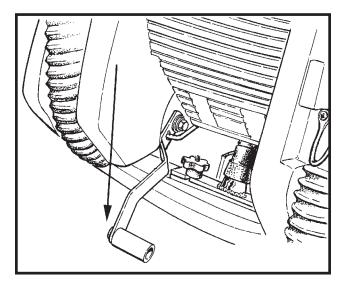


Figure 4a

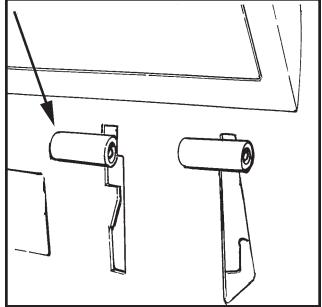


Figure 2

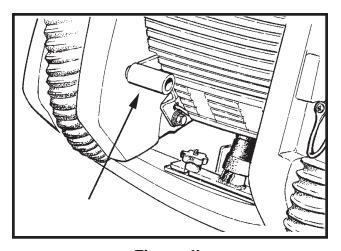


Figure 4b

How To Prepare the Machine For Operation

How To Install The Brush Or Pad Driver

To install the brush or pad driver on the machine, follow this procedure:

- 1. Turn the main switch "OFF".
- 2. Put the brush lever in the "UP" position.
- 3. Go to the front of the machine.
- 4. Using a short Phillips screw driver, loosen the latch screw enough to allow the retainer to be free of the cover. (See figure 5a, 1)
- 5. Open the brush motor cover and remove the brush housing. See figures 5a and 5b.
- 6. Put a brush or pad driver under the brush housing. See figure 5c.
- 7. Align the lugs on the motor with the slots in the brush gimbal.
- 8. Pull the brush up and rotate counter clockwise until gimbal locks.
- 9. Replace brush housing and close brush motor cover.
- 10. Install the brush retainer latch into the brush motor cover. Tighten the retainer screw.

How To Remove The Brush or Pad Driver

To remove the brush or pad driver from the machine, follow this procedure:

- 1. Put the brush lever in the "UP" position.
- 2. Turn the main switch "OFF".
- 3. Go to the front of the machine.
- 4. Open the brush motor cover and remove brush housing. See figures 5a-5c.
- 5. Rotate brush clockwise with a quick snapping action until brush releases.
- 6. Replace brush housing and close brush motor cover.

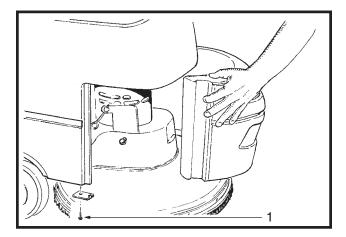


Figure 5a

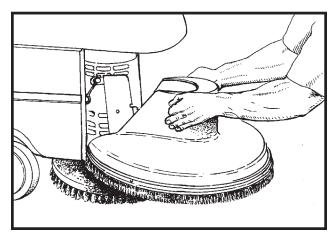


Figure 5b

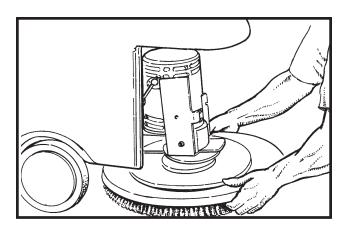


Figure 5c

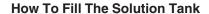
How To Operate The Machine

How To Operate The Squeegee

The squeegee wipes the floor while the vacuum motor removes the dirty solution form the floor. Use your right hand to lower or raise the squeegee handle. To operate the squeegee, follow this procedure:

- 1. To lower the squeegee and start the vac motor, move the squeegee lever to the right and down. See figure 6.
- 2. To raise the squeegee, lift the squeegee lever up. See figure 7.

NOTE: The center position lets the vac motor continue to run with the squeegee off the floor to avoid drips and also allows you to back up the machine.



The solution tank lid is at the front. To fill the solution tank follow this procedure:

- 1. Raise the solution tank lid.
- 2. Add a cleaning chemical to the solution tank. For the correct amount of chemical, follow the directions shown on the container.
- 3. Fill the solution tank with water.
- 4. Lower the solution tank lid.

WARNING: Water solutions or cleaning materials used with this type of machine can leave wet areas on the floor surface. These areas can cause a dangerous condition for the operator or other persons. Always put CAUTION signs near the area you are cleaning.



WARNING: Machines can ignite flammable materials and vapors. Do not use with or near flammables such as gasoline, grain dust, solvents and thinners. Only use a cleaning concentrate recommended by the chemical manufacturer.

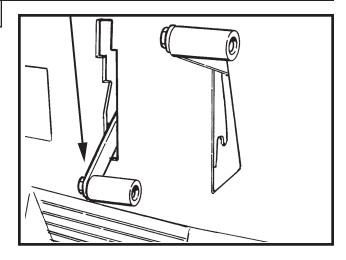


Figure 6

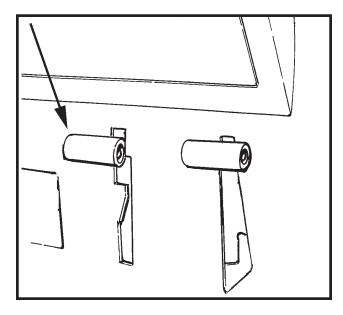


Figure 7

How To Operate The Machine

Operating The Machine

- 1. Move the machine in a straight direction, forward and backward.
- 2. Stop the machine safely.
- 3. Turn the machine both left and right and return to a straight direction.

To move the machine, follow this procedure:

- 1. Release the parking brake (if equipped with machine).
- 2. Turn the main switch to the "ON" position
- 3. Raise the brush to the highest setting.
- 4. Raise the squeegee.
- 5. Hold the control handle as shown in figure 8.
- 6. To reverse the machine, pull the machine backwards. NOTE: Anytime the machine is reversed, the squeegee must be raised to either of the two up positions. This will prevent damage to the squeegee.
- 7. To turn the machine, push the rear of the machine to the side.
- When you stop the machine, turn the main switch "OFF" and set the parking brake (if equipped).

How To Clean A Floor

WARNING: Water solutions or cleaning materials used with this type of machine can leave wet areas on the floor surfaces. These areas can cause a dangerous condition for the operator or other persons. Always put CAUTION signs near the area you are cleaning.

To clean a floor follow this procedure:

- 1. Set the parking brake (if equipped with machine.)
- 2. Put the water and a cleaning chemical in the clean solution tank.
- 3. Release the parking brake (if equipped with machine.)
- 4. Turn the main switch "ON".
- 5. Lowerthe squeegee.
- 6. Put the brush lever switch in the floating position.

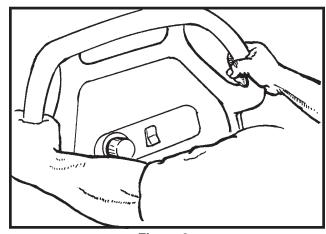


Figure 8

NOTE: Keep the machine moving when the brush is rotating on the floor. Pre-wet brush/pad or keep light pressure on brush until solution flow is adequate to keep brush/pad from scratching floor.

- 7. Turn the solution knob to the right to activate the flow of solution. Adjust the flow of clean solution to the flow desired.
- 8. Move the machine across the floor in the forward direction.
- 9. Make a 180° turn.

NOTE: When you make more passes across the floor, let the brush clean approximately 2 inches of the area already cleaned by the brush.

NOTE: During most cleaning procedures, apply and remove the solution in one operation.

How To Clean A Very Dirty Floor

To clean a very dirty floor, follow this procedure:

- 1. Apply solution to the floor.
- 2. Do not lower the squeegee, which will keep the vacuum motor off.
- 3. Lower the brush or pad and scrub the floor.
- Scrub the floor again with additional solution and lower the squeegee.
- 5. Pick up all the solution with the squeegee.



ENCORE S20E

Section II

Parts and Service Manual

HOW TO CORRECT PROBLEMS IN THE MACHINE

PROBLEM	CAUSE	ACTION	
There is no solution flow.	The solution valve is closed.	Open the solution valve.	
	There is an obstruction in the solution hose or filter.	Remove the obstruction from the hose and the filter.	
	The solution valve or electric wiring is damaged.	Repair or replace the valve and the electric wiring.	
	The solution tank is empty.	Fill the solution tank.	
	The solution module is damaged.	Check solution module	
The solution flow does not stop.	The solution valve is open or dirty.	Close or Clean the solution valve.	
	The solution valve or wiring is damaged.	Repair or replace the valve and the wiring.	
	The solution valve is dirty	Clean the solution valve.	
	There is a damaged seat and washer in the solution valve.	Replace the seat and washer.	
	The solution module is damaged.	Check solution module.	
The machine does not remove all the	The squeegee is up	Lower the squeegee.	
water from the floor.	The squeegee tilt is not correct.	(See Figure 11, page 23)	
	The vacuum tank is full.	Drain the tank.	
	The screen filter is dirty.	Clean the screen filter.	
	There is an obstruction or damage in the squeegee, squeegee hose or standpipe.	Remove the obstruction or repair the damage.	
	The vacuum motor is not running.	Check for tripped breaker. Have an authorized service person make repairs.	
	The squeegee hose is disconnected, or damaged	Check and connect hose.	
	The squeegee blade is damaged, worn, or incorrectly installed.	Turn or replace the squeegee blade. Correctly install the squeegee blade.	
	The squeegee pressure is not correctly adjusted.	Adjust the pressure of the squeegee.	
	The gaskets on the cover of the recovery tank are damaged.	Replace the gaskets.	
	The recovery tank lid is on wrong.	Rotate lid 180° and replace.	

PROBLEM	CAUSE	ACTION	
The cleaning is not even.	The scrub brush or pad is worn.	Replace the scrub brush or pad.	
	There is damage to the brush assembly, caster or the solution valve.	Have an authorized service person make the needed repairs.	
	The brush motor is not running	Check for tripped breaker. Reset. Check for loose connections.	
	The solution level is low.	Fill the solution tank.	
		NOTE: If the problem continues consult an authorized service person.	
The machine does not run.	The machine loses power	Reset the circuit breaker. Do not use an extension cord.	
	Main switch is off.	Turn main switch on.	
	Power cord disconnected.	Reconnect power cord.	
	Wall circuit breaker blown.	Reset wall circuit breaker.	

DANGER:

Maintenance and repairs performed by unauthorized personnel could result in damage or injury. Maintenance and repairs must be done by authorized Clarke Technology personnel only.

DANGER: Operating a machine that is not

completely or fully assembled could result in injury or property damage. Do not operate this machine until it is completely assembled. Inspect the machine carefully before operation. Keep all fasteners tight.

DANGER: Electrocution could occur if mainte-

nance and repairs are performed on a unit that is not properly disconnected form the power source. Always disconnect the power supply before attempting any maintenance

or service.

WARNING: Severe injury could occur to your hands if maintenance or repairs are performed when the machine is on or plugged into power supply. Always turn off power and disconnect machine before attempting any

maintenance.

WARNING: SEVERE bodily injury could occur if operator leans body under the tank support to perform maintenance. Always position the tank support all the way over and rest it on the floor before attempting any service and/

or maintenance.

WARNING: Moving parts can cause injury to feet

and hands. Keep feet and hands clear from under the machine.

WARNING: Attempting maintenance and or re-

pairs to this machine before emptying the solution or recovery tank could result in machine or property

damage.

WARNING: Keep all fasteners tight.

<u>Do These Procedures When You Begin Your Work</u> <u>Period</u>

NOTE: Always engage the parking brake (if equipped) before servicing the machine.

Keep the machine clean. It will need fewer repairs and have a longer life.

- 1. Connect machine power cord to electrical outlet.
- 2. Make sure the recovery tank lid is on correctly. See figure 1.
- 3. Make sure the Screen filter over the vacuum motor is clean and in position. See figure 1 (a)
- 4. Make sure the valves on the drain hoses are clean. Tightly close the valves.
- 5. Make sure brush housing and skirt are in position on the brush head.
- 6. Make sure the brush is in position and installed correctly
- 7. Check the installation of the squeegee and squeegee hose.

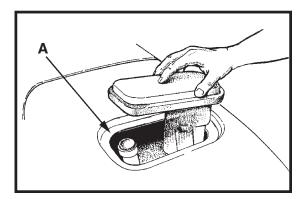


Figure 1

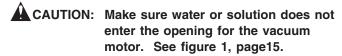
Do These Procedures When You End Your Work

NOTE: Always engage the parking brake (if equipped) before servicing the machine.

- 1. Drain the solution tank (Figure 2) and the recovery tank (Figure 3). To drain the tanks, follow this procedure:
 - a. Turn the main switch "OFF".
 - b. Remove the drain hose from the back of the machine.
 - c. Put the end of the hose over a drain or bucket.
 - d. Turn the valve handle to the left. Pull the handle out to open the drain. (Figure 4)

NOTE: Have the opening in the side of the valve away from you when you open the valve.

- e. To open the valve completely, turn the handle to the right. Pull the handle out of valve. (Figure
- 2. Flush the tanks. To flush the tanks, put clean water in the tank through the opening on top of the tank.



- 3. If a tank or drain hose has an obstruction, use a high pressure water hose to flush the tank or hose. Put the water hose into the drain hose.
- 4. Leave the tanks and the drain valves open to dry in the
- 5. Check the squeegee blade. Use a cloth to clean the squeegee blade. If the squeegee blade is damaged or worn, turn or replace the blade.
- 6. Check and clean the solution lid gasket. Use a mild cleaning solution and rinse the parts in clean water.

Use a clean cloth and wipe the surface of the machine.

These Maintenance Procedures Must Be Done Every Week:

WARNING:

Maintenance and repairs must be done by authorized personnel only. Always empty the solution tank and the recovery tank before doing any maintenance. Keep all fasteners tight.

1. Check the hoses for leaks, obstructions and other damages.

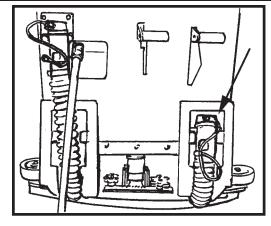


Figure 2

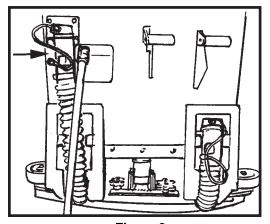


Figure 3

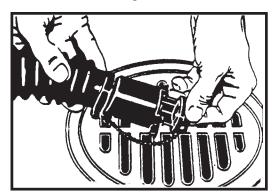


Figure 4

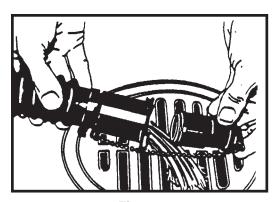


Figure 5

- 2. Check and clean the filter screen in the solution hose. To clean the screen, follow this procedure: (See figures 11 and 12 page 18)
 - a. Turn the connector to the left.
 - b. Remove and clean the filter screen.
 - c. Install the filter screen in the hose. Turn the connector to the right to connect the hose.
- 3. Use a grease gun to lubricate the caster. See figure 6.
- 4. Check the squeegee and the scrub brush or the pad driver for damage.
- 5. Check the squeegee and the vacuum hose for damage, leaks and obstructions.

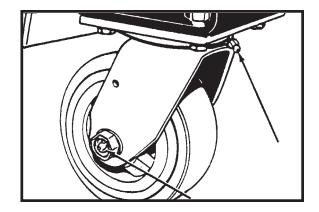


Figure 6

Maintenance For The Squeegee

To remove the squeegee, follow this procedure:

- 1. Remove the squeegee assembly by loosening the two knobs that attach the squeegee to the machine. Pull the squeegee assembly off. See figure 7.
- 2. Inspect the squeegee blade.
- 3. If the blade is worn, turn the blade so that a new edge is in the wiping position.
- 4. Reinstall squeegee assembly on the machine.

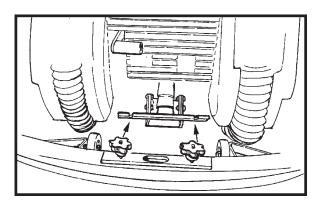


Figure 7

How To Adjust The Squeegee

The following adjustments are set at the factory, however they may require slight adjustment.



To adjust the pressure, refer to Figure 8. Proper adjustment will produce a uniform flare along the rear blade when the machine is moved forward. To increase pressure, loosen bolt and slide squeegee mount down. To decrease the pressure, loosen the bolt and slide squeegee mount up.

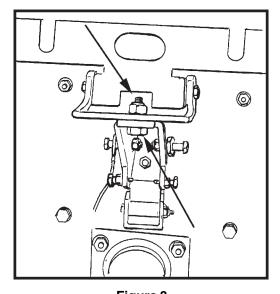


Figure 8

How To Adjust The Squeegee cont.

Adjusting Squeegee Tilt:

The tilt of the squeegee causes the rear blade to raise up in the center or on the ends, depending on which direction the tilt is changed. For tilt adjustment, refer to figure 9. Loosen left and right screw "X". In order to bring the rear blade down in the center, tip "Y" down. To bring both ends down, tip "Y" up. Make very small adjustments and try it until a uniform flare is achieved. Changing the tilt may also require readjusting the squeegee pressure.

Adjusting Squeegee Blades:

When properly installed the front blade should be approximately .06 above the rear blade. See figure 10.

Adjusting Squeegee Support Wheels:

The support wheels should be set at .12 above the floor with the rear blade touching the floor. See figure 10.



WARNING: Maintenance and repairs must

be done by authorized person-

nel only.



WARNING: Electrical repairs must be

done by authorized personnel

only.

Consult your Clarke Technology Authorized Service Person to do the service procedures.

Use only genuine Clarke Technology parts.



How to replace float switch, check ballast tanks, and vacuum motor. (See Figure 11)

- 1. Remove the power cord from wall outlet.
- 2. Open the recovery tank/solution fill lid.
- 3. Using a Phillips screw driver, remove the retainer and the screw.
- 4. Perform the maintenance required.
- Close recovery tank and reinstall latch and screw.

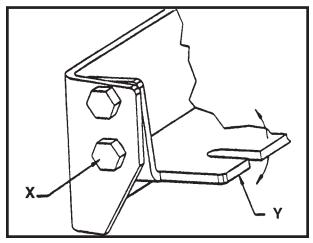


Figure 9

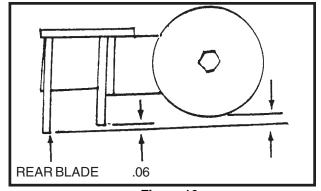


Figure 10

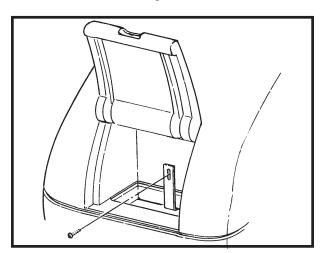


Figure 11

Encore S20E 7/00 Machine Variables and Accessories

Volt	00901A	Breakdown:	00900A 51447D	Encore S20E 115V Base Machine 20" Polypropylene Brush	
115 \	00902A	Breakdown:	00900A 51453D	Encore S20E 115V Base Machine Pad Driver	
	_				
Volt	00911A	Breakdown:	00910A 51447D	Encore S20E 230V Base Machine 20" Polypropylene Brush	
230	00912A	Breakdown:	00910A 51453D	Encore S20e 230V Base Machine Pad Driver	

Accessories

Accessories		
Description	Part No.	Pads by Case
Pad Driver, Dual Direction	51453D	Color 20"
Base	57370A	Yellow (Polish) 979199
Retainer	57369A	White (Polish) 976067
Pad/Brush Clutch Plate	66649A	Red, (Light Scrub) 976068
Spacer	58531A	Green, (Light Scrub) 976169
Clutch Plate Screws	962819	Blue, (Heavy Duty Scrub) 976069
Clutch Plate Nuts	80084A	Brown, (Stripper) 976070
Pad/Brush Clutch Plate Dual	30033A	Black, (Stripper) 976170
Spacer	58530A	
Poly Brush Dual Direction (general scrub)	51447D	
Nylon Brush .016 Dual Direction (general scrub)	51482D	
Clarke Technology Care Kit	14607A	
Hour Meter Kit	10656A	
29" Squeegee Kit	18820A	
32" Squeegee Kit	10129A	
Polydur, Protectant	50478A	
Kit, Grease Gun	55420A	
Brake, Option	10635A	

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CLARKE TECHNOLOGY U.S. WARRANTY

This Clarke Technology Industrial/Commercial Product is warranted to be free from defects in materials and workmanship under normal use and service for a period of one year from the date of purchase, when operated and maintained in accordance with Clarke Technology's Maintenance and Operations Instructions.

This warranty is extended only to the original purchaser for use of the product. It does not cover normal wear parts such as electrical cable, rubber parts, hoses and motor brushes.

If difficulty develops with the product, you should:

- (a). Contact the nearest authorized Clarke Technology repair location or contact the Clarke Technology Service Operations Department, 2100 Highway 265, Springdale, Arkansas 72764, for the nearest authorized Clarke Technology repair location. Only these locations are authorized to make repairs to the product under this warranty.
- (b). Return the product to the nearest Clarke Technology repair location. Transportation charges to and from the repair location must be prepaid by the purchaser.
- (c). Clarke Technology will repair the product and or replace any defective parts without charge within a reasonable time after receipt of the product.

Clarke Technology's liability under this warranty is limited to repair of the product and/or replacement of parts and is given to purchaser in lieu of all other remedies, including INCIDENTAL AND CONSEQUENTIAL DAMAGES.

THERE ARE NO EXPRESS WARRANTIES OTHER THAN THOSE SPECIFIED HEREIN. THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION OF THE FACE HEREOF. NO WARRANTIES, INCLUDING BUT NOT LIMITED TO WARRANTY OF MECHANTABILITY, SHALL BE IMPLIED. A warranty registration card is provided with your Clarke Technology product. Return the card to assist Clarke Technology in providing the performance you expect from your new floor machine.

ALTO U.S. Inc., 2100 Highway 265, Springdale, Arkansas 72764.

CLARKE TECHNOLOGY POLYDUR TANK EIGHT YEAR U.S. GUARANTEE

Your new Encore Auto Scrubber has a Polydur Tank. Polydur is a rotationally molded, low-density linear polyethylene that won't crack or dent, and withstands most corrosives and temperature extremes. Clarke Technology backs up your Polydur Tank with its eight year guarantee. If a tank breaks, cracks, or leaks, within eight years, it will be replaced free.

CLARKE TECHNOLOGY reserves the right to make changes or improvements to its machine without notice.

Always use genuine Clarke Technology Parts for repair.

